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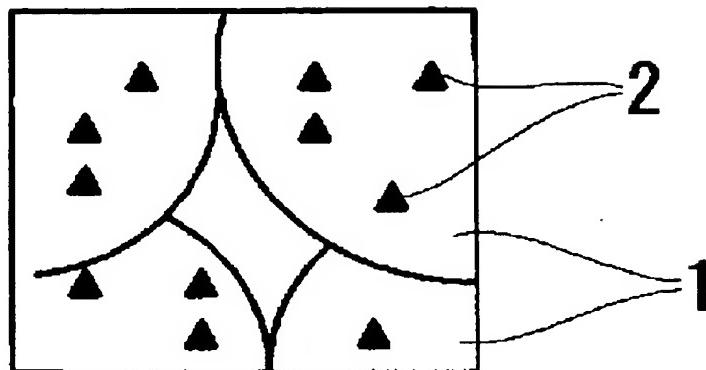
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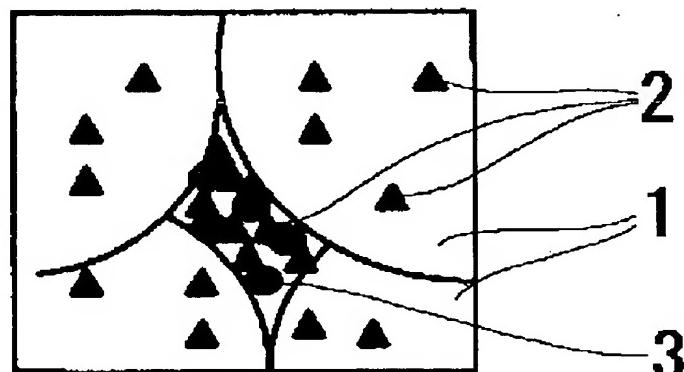
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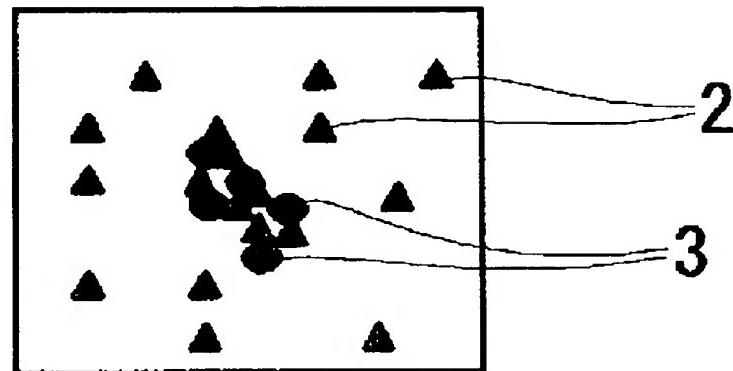
*Fig. 1 (a)*



*Fig. 1 (b)*

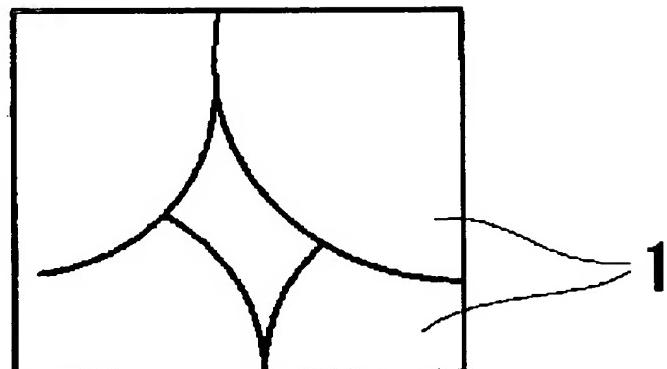


*Fig. 1 (c)*

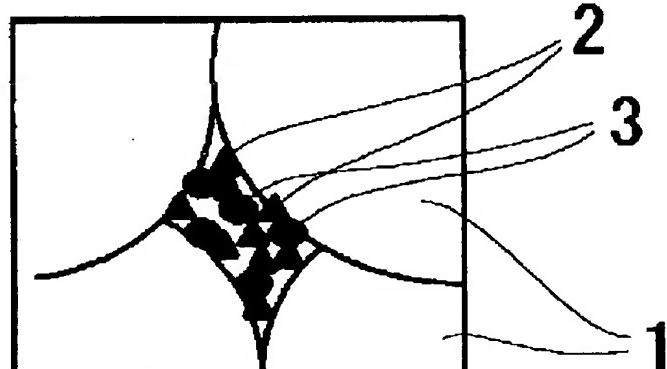


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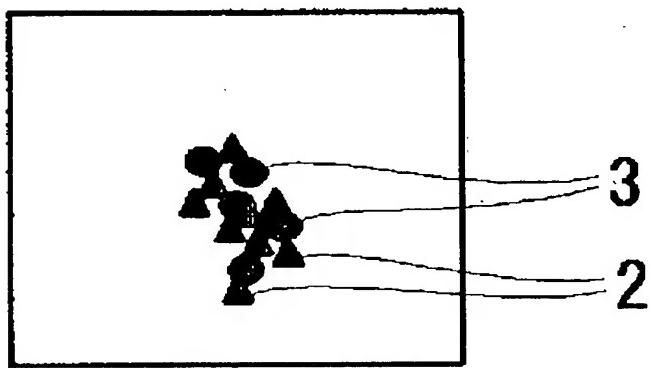
*Fig. 2 (a)*



*Fig. 2 (b)*



*Fig. 2 (c)*



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Fig. 3 (a)

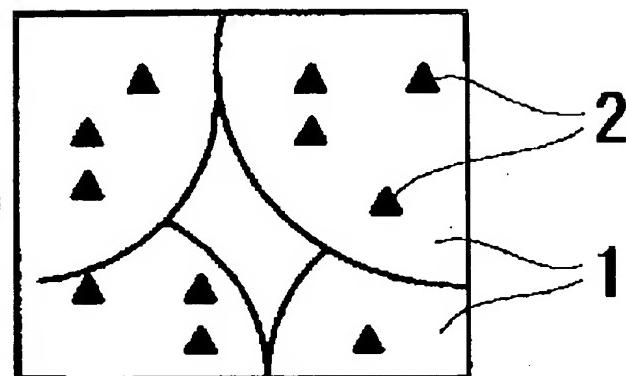


Fig. 3 (b)

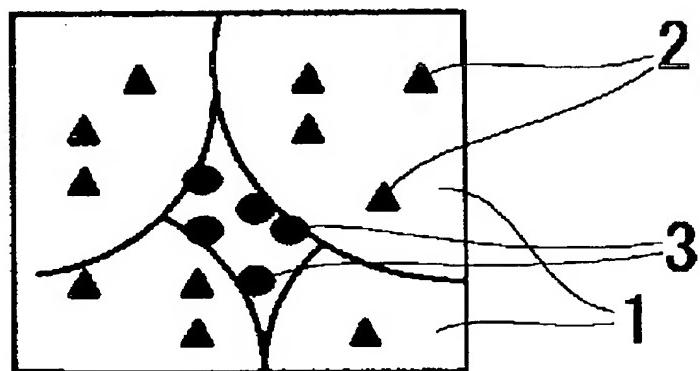
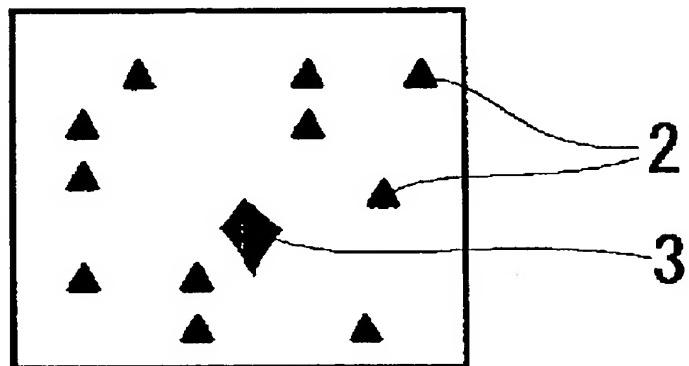
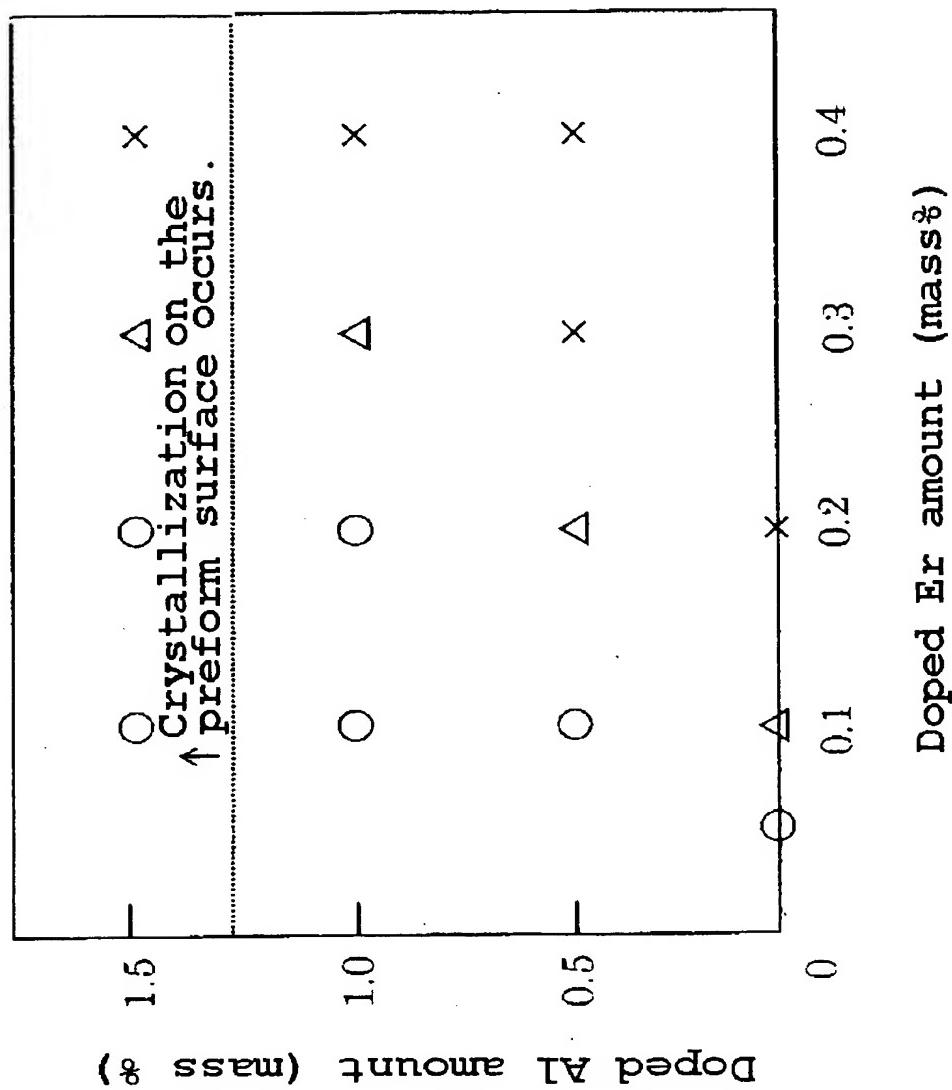


Fig. 3 (c)



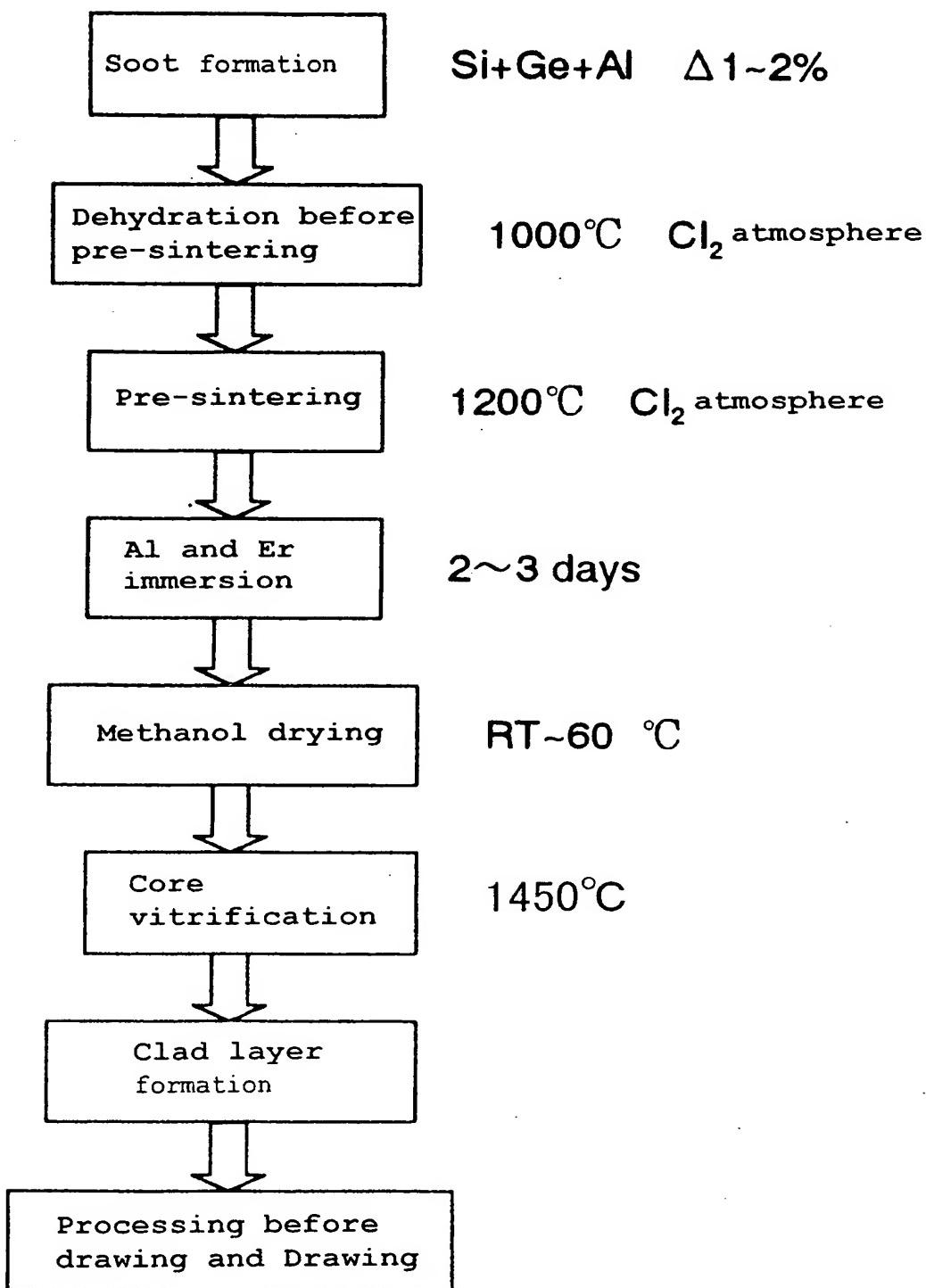
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*Fig. 4*



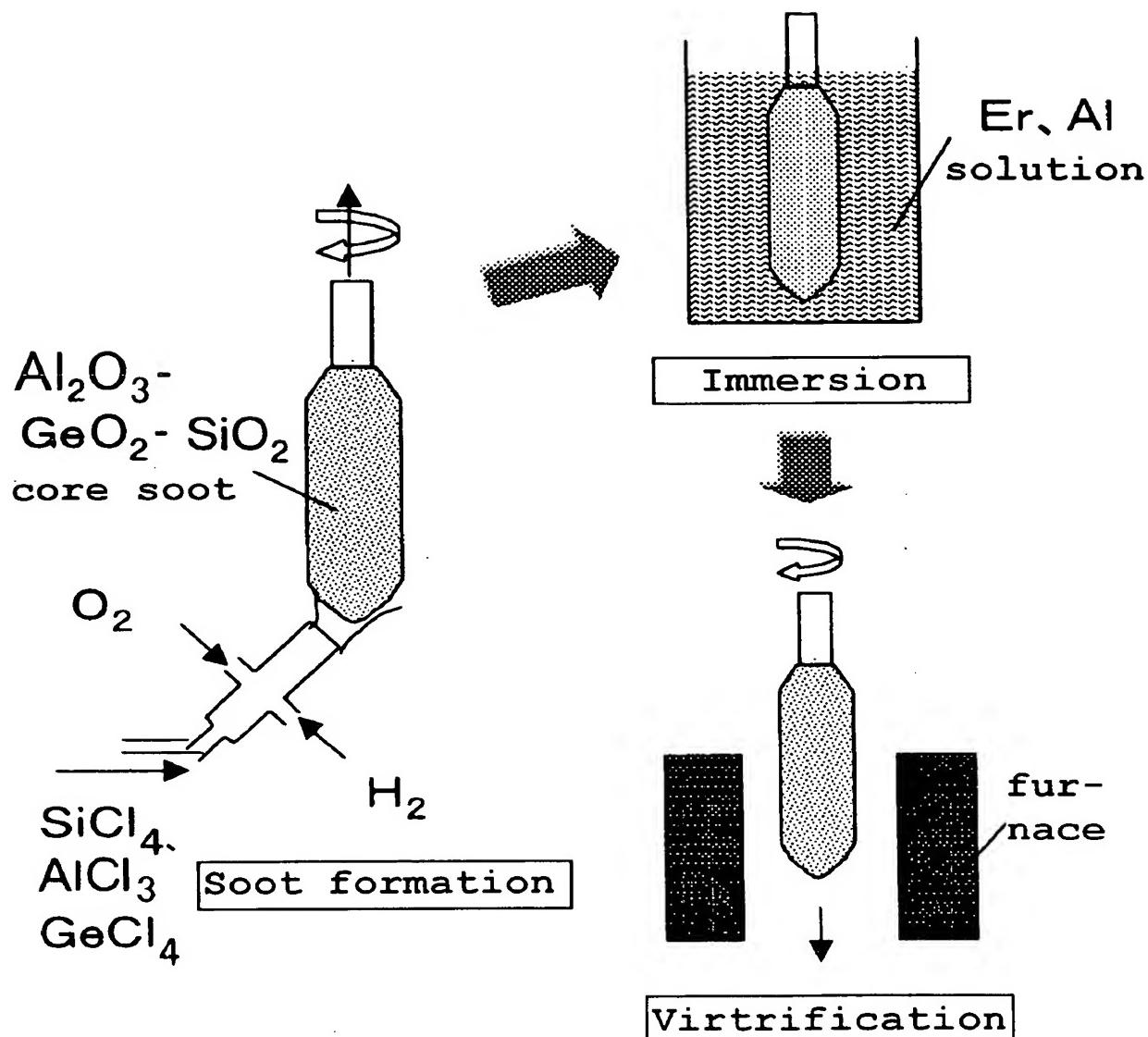
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Fig. 5



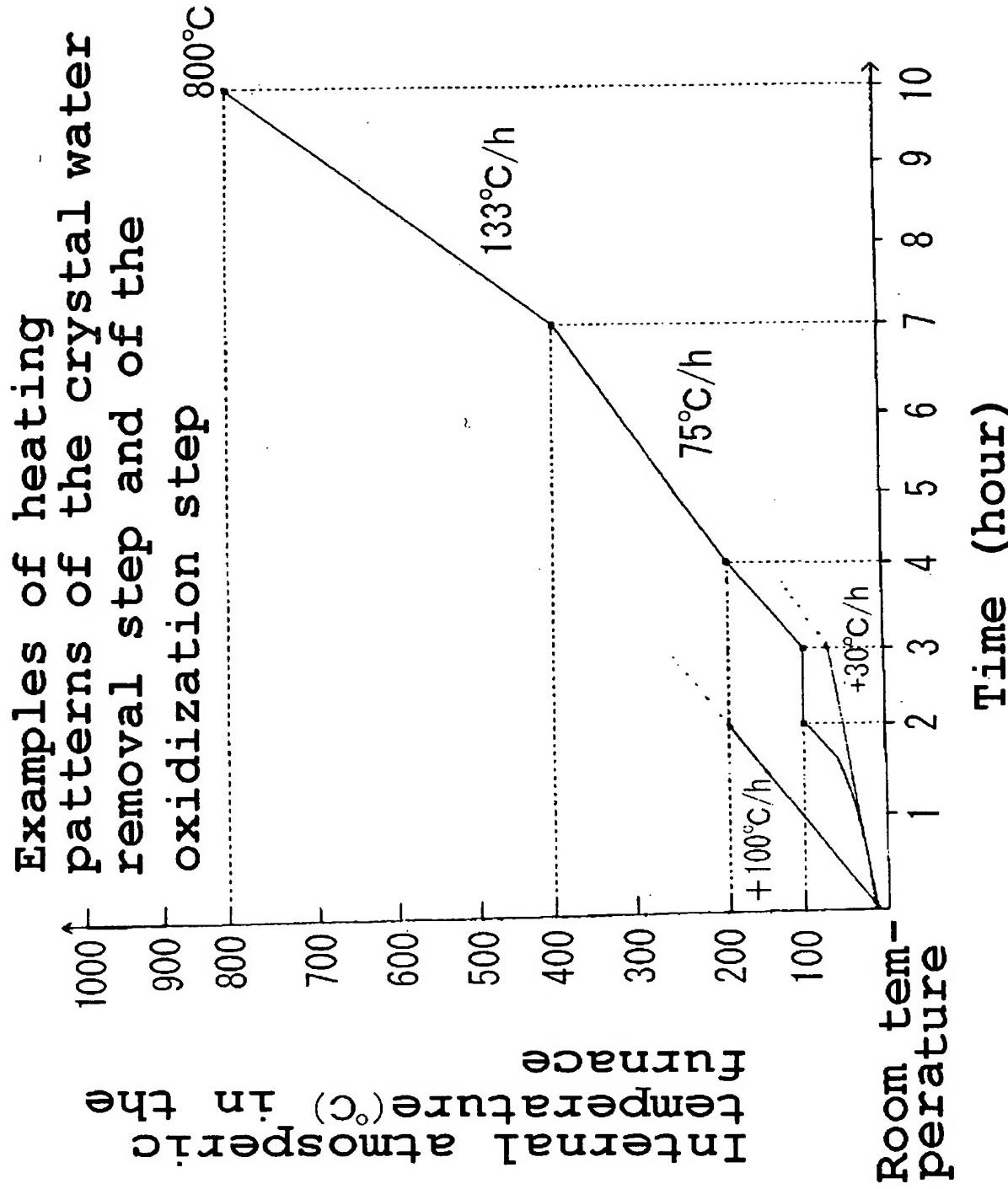
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Fig. 6



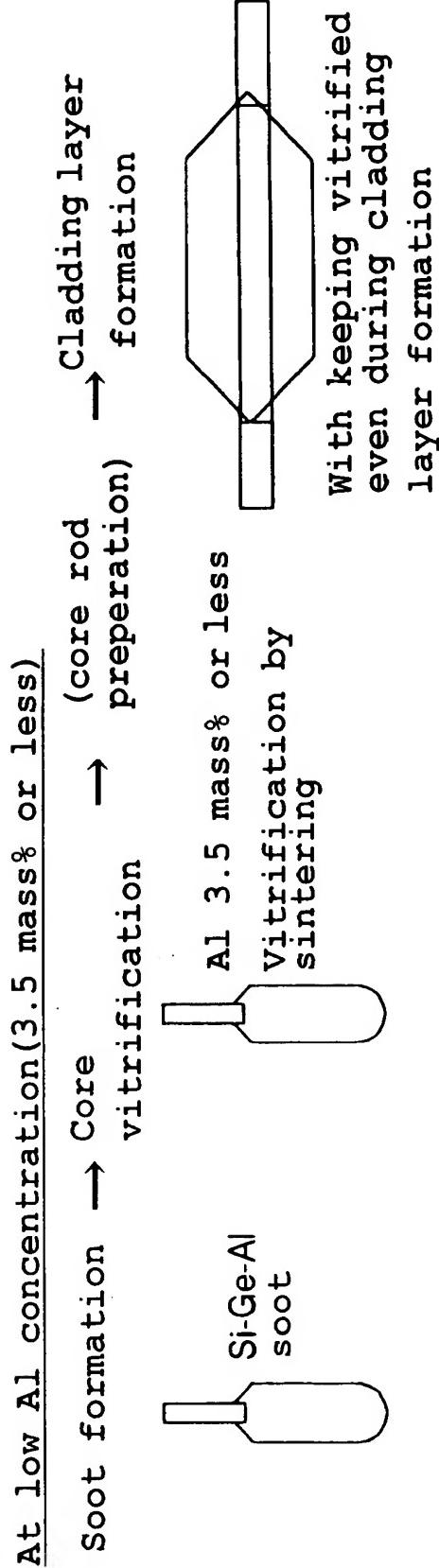
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Fig. 7



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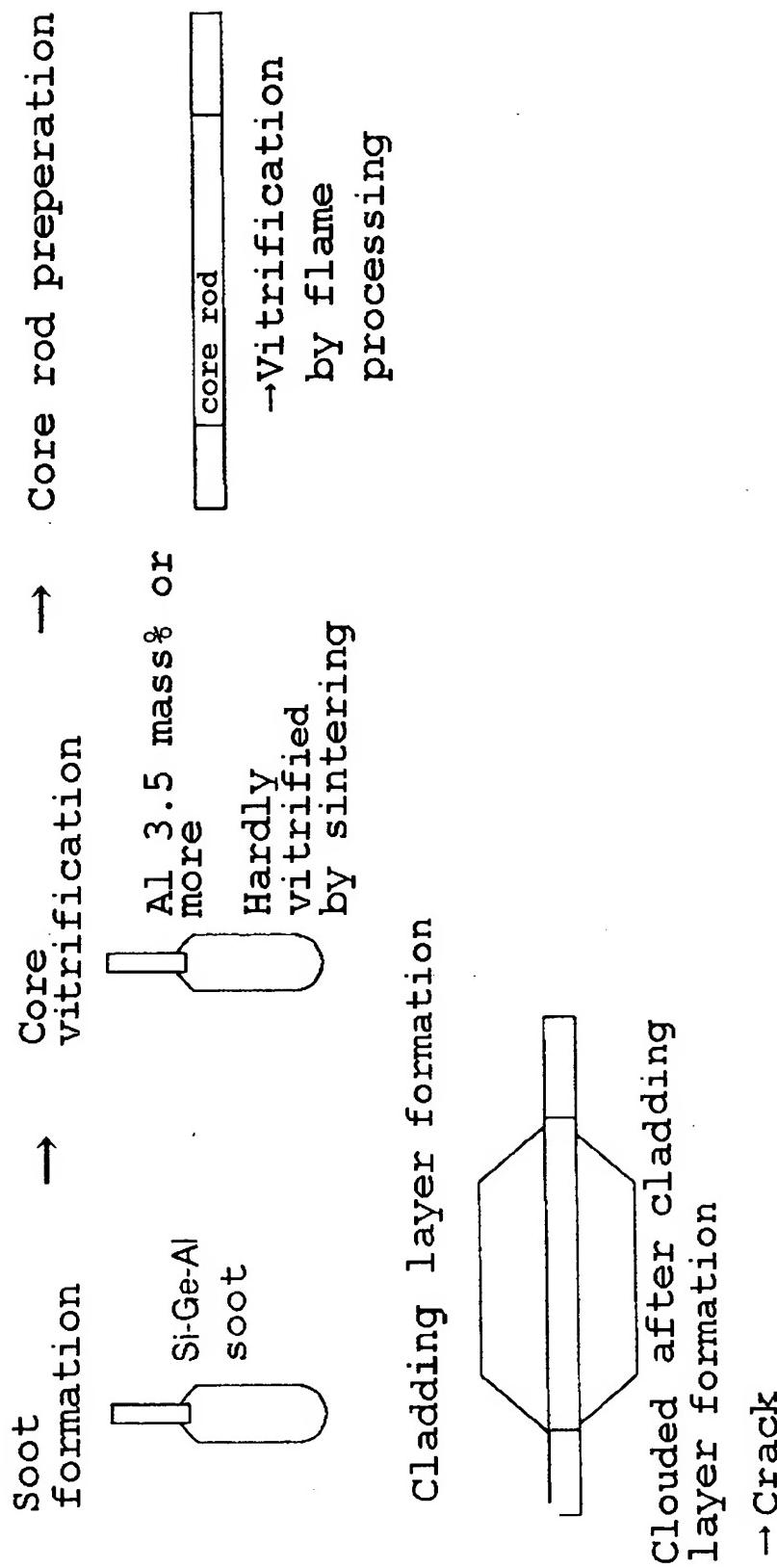
Fig. 8(a)



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Fig. 8(b)

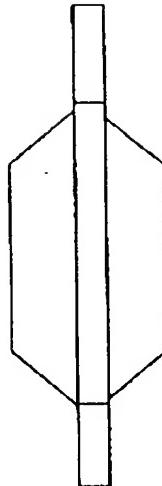
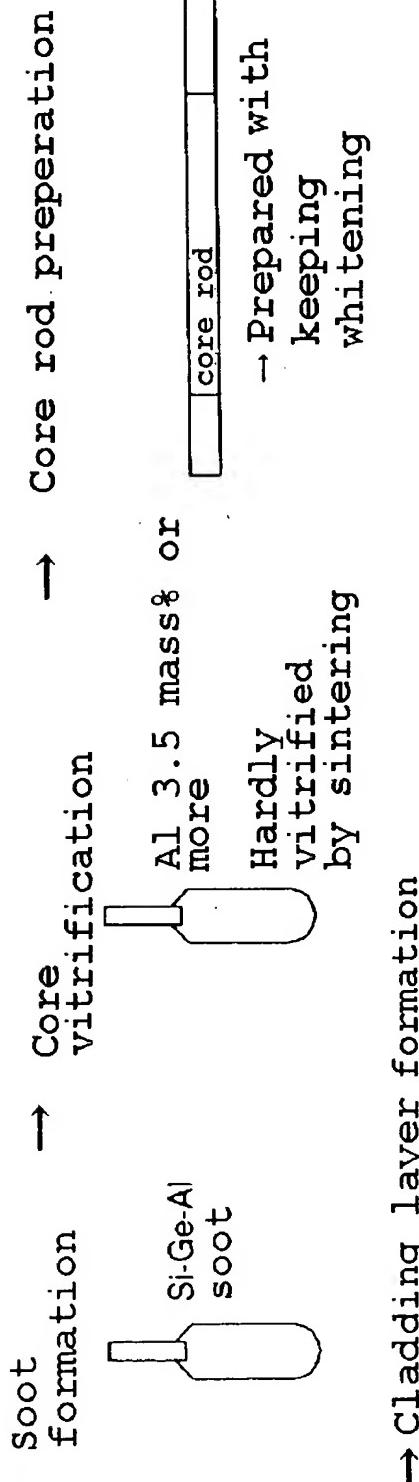
At high Al concentration (3.5 mass% or more)  
Vitrification of core



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Fig. 8(c)

At high Al concentration(3.5 mass% or more)  
keeping core to be clouded



Clouded after cladding  
layer formation

No crack

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Fig. 9

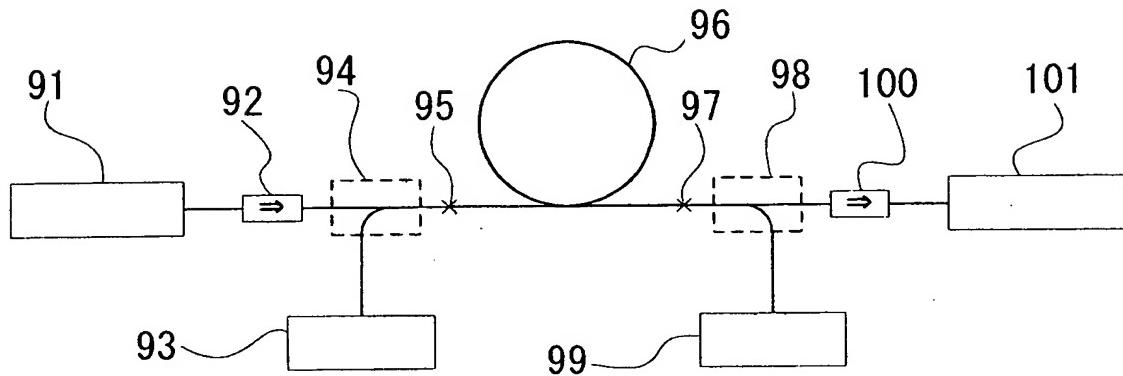
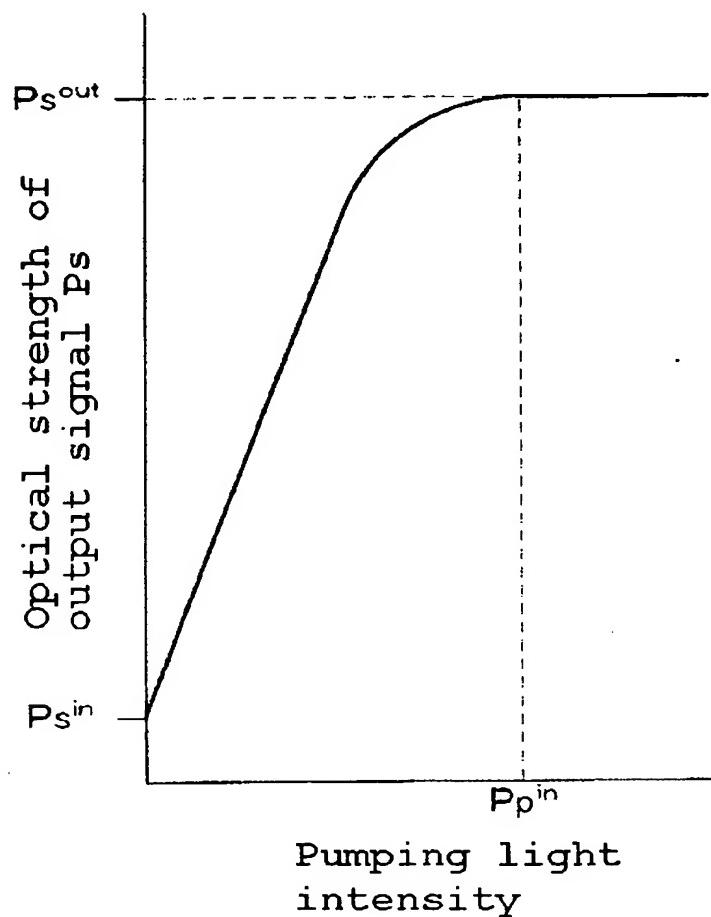
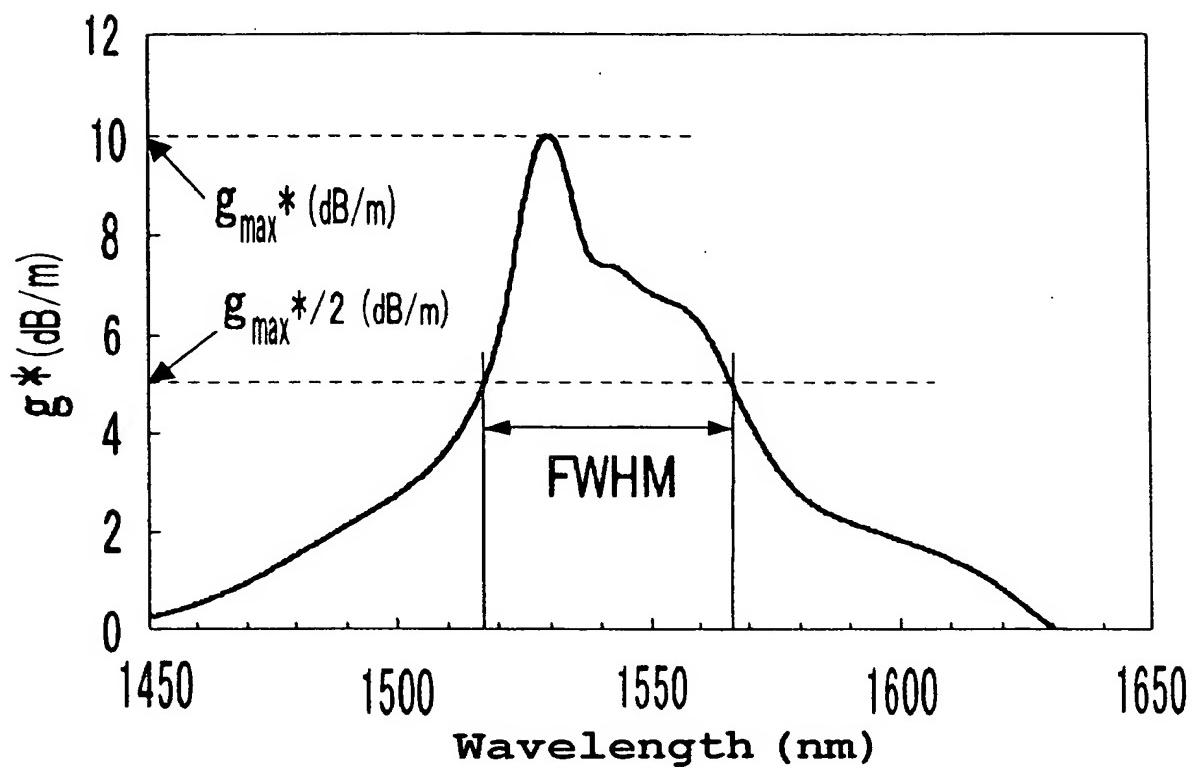


Fig. 10



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Fig. 11



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Fig. 12

